

CLAIMS

What is claimed is:

1. A television recorder system having a removable hard disk drive, comprising:
a television recorder being connectable with a television and television broadcast source for recording television programming, the television recorder having a memory storage device bay;
a rack mounted in the memory storage device bay; and
a carrier for holding a hard disk drive, the carrier removeably engages the rack to insert the carrier into the television recorder and to electronically couple the hard disk drive with the television recorder.
2. A television recorder system as set forth in claim 1, wherein the rack has lateral sides, a hard disk drive mounts in the carrier, the carrier has lateral rails that slidably mate with the lateral sides of the rack, at least one lateral rail of the carrier defines an opening, the carrier includes a fan mounted the one lateral rail to blow air through the opening of the carrier and cool the hard disk drive.
3. A television recorder system as set forth in claim 1, wherein a hard disk drive mounts in the carrier, the carrier includes a top cover, a tray, a face and a vent, the top cover covers the tray to enclose the hard disk drive, the face defines the vent to enable air to enter the carrier.
4. A television recorder system as set forth in claim 1, wherein a hard disk drive mounts in the carrier, the carrier includes a top cover, a tray, a face and a vent, the top cover covers the tray to enclose the hard disk drive, the face defines the vent to enable air to enter the carrier, and
the carrier includes a fan mounted on the face to blow air through the vent.

5. A television recorder system having a removable hard disk drive, comprising:
a television recorder connectable with a television and television broadcast source for recording television programming, the television recorder having a memory storage device bay;

a rack mounted in the memory storage device bay, the rack having a first lateral rail, a second lateral rail and a backplane with a data connector, the backplane attaches to the lateral rails;

a carrier for holding a hard disk drive, the carrier has a face with a vent, a first lateral side and a second lateral side, the first lateral side of the carrier has a periphery defining an opening, the lateral sides of the carrier slidably engage the lateral rails of the rack to insert the carrier into the television recorder and electronically couple the carrier and the rack.

a hard disk drive mounted in the carrier;

the first and second lateral sides of the carrier slidably engage the first and second lateral rails, respectively, to insert the carrier into the rack;

the tray has a top cover with vents for bringing air into the carrier to cool the hard disk drive.

6. A television recorder system as set forth in claim 5 further comprising a fan mounted on the first lateral rail of the rack to blow air through the opening of the carrier.

7. A television recorder system as set forth in claim 5 further comprising a fan mounted on the first lateral side of the carrier.

8. A television recorder system as set forth in claim 5, wherein the face has a vent for bringing air into the carrier.

9. A television recorder system as set forth in claim 8, wherein the face has fans for blowing air into the carrier, the carrier fans cooperate with the rack fan to cool the hard drive.

10. A television recorder system having a removable hard disk drive, comprising:

a television monitor;

a television recorder connected with the television monitor and with a television broadcast source for recording television programming, the television recorder having a memory storage device bay;

a rack mounted in the memory storage device bay, the rack having lateral rails and a backplane with a data connector, the backplane attaches to the lateral rails;

a carrier for holding a hard disk drive, the carrier having lateral sides and a backplane with a data connector, the lateral sides of the carrier slidably engage the lateral rails of the rack to insert the carrier into the television recorder and electronically couple the carrier and the rack.

11. A television recorder system as set forth in claim 10, wherein a hard disk drive mounts in the carrier and at least one lateral rail of the carrier defines an opening, the carrier includes a fan mounted the one lateral rail to blow air through the opening of the carrier and cool the hard disk drive.

12. A television recorder system as set forth in claim 10, wherein a hard disk drive mounts in the carrier, the carrier includes a top cover, a tray, a face and a vent, the top cover covers the tray to enclose the hard disk drive, the face defines the vent to enable air to enter the carrier.

